STR-S255

SERVICE MANUAL

AW27

G-AEP Model

SONY
SONY
SONY

SPECIFICATIONS

Amplifier section

Continuous RMS power output
60W + 60W
(1kHz, 5% THD, 8 ohms)

Inputs

	Sensitivity	Impedance
PHONO	2.0mV	50 kilohms
CD	150mV	50 kilohms
VIDEO	150mV	50 kilohms

Outputs

SPEAKER	Accepts speakers of 8 to 16 ohms
HEADPHONES	Accepts headphones with low and high impedance

Frequency response
PHONO: RIAA curve ±0.5 dB
TUNER/CD/VIDEO: 10Hz – 100kHz ±3 dB

FM tuner section

Frequency range 87.5 MHz – 108.0 MHz
Antenna terminals 75 ohms unbalanced
Intermediate frequency
10.7 MHz
Sensitivity at 46 dB quieting
39.5 dBf, 25 μV (stereo)
19.5 dBf, 2.5 μV (mono)
Usable sensitivity 14.8 dBf, 1.5 μV (IHF)
Signal-to-noise ratio
75 dB (stereo)
80 dB (mono)

– Continued on page 2 –

FM STEREO/FM-AM RECEIVER

SONY®

AUD

MICROFILM

Harmonic distortion	0.5% (stereo) 0.3% (mono) at 1 kHz
Separation	40 dB at 1 kHz

AM tuner section

Frequency range	530 – 1610 kHz (at 10 kHz step) 531 - 1602 kHz (at 9 kHz step)
Antenna	AM loop antenna External antenna terminal
Intermediate frequency	450 kHz
Usable sensitivity	AM loop antenna: 500 μV/m (1,000 kHz)
Signal-to-noise ratio	54 dB
Harmonic distortion	0.3%

General

AC outlet	100W max. unswitched
Dimensions	Approx. 430 × 225 × 355 mm (w/h/d) (17 × 8¾ × 14 inches) incl. projecting parts and controls
Weight	Approx. 9.2 kg (20 lb 5 oz) net

To change the AM tuning interval

The AM tuning interval is preset at the factory to 10 kHz to match the frequency allocation system of your country. To change the interval to 9 kHz, proceed as follows.

1. Depress the POWER switch to turn on the system.
2. Press the FM/AM BAND selector to select AM.
3. Press the POWER switch to turn off the system.
4. While pressing the " + " TUNING button, press the POWER switch to turn it on.

To reset the interval to 10 kHz, follow the same procedure.

Note

When the interval is changed, all stations memorized to the 10-key station preset selector will be erased.

After changing the interval, be sure to memorize the stations again.

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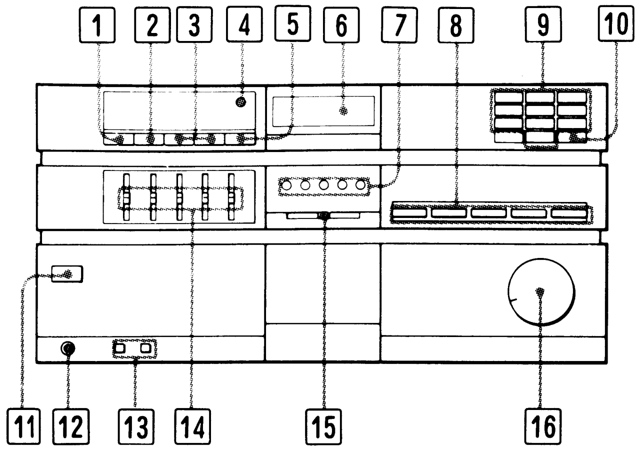
SAFETY-RELATED COMPONENT WARNING!!

COMPONENTS IDENTIFIED BY SHADING AND MARK ⚠ ON THE SCHEMATIC DIAGRAMS AND IN THE PARTS LIST ARE CRITICAL TO SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY.

FUNCTION OF CONTROLS


1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16

1. **FM/AM BAND selector**

2. **AUTO TUNING (FM) button**
   Select the automatic or manual tuning mode.

3. **TUNING buttons**
   Press to change the frequency. To change the frequency continuously, keep the button depressed.

4. **STEREO indicator**
   Lights when an FM stereo program of sufficient signal strength is tuned in.

5. **MEMORY button**
   Memorizes a station on a 10-key station preset selector.

6. **Display window**

7. **FUNCTION indicators**
   Lights to show the current input source.

8. **FUNCTION buttons**
   VIDEO: For listening to or recording the sound from video equipment or auxiliary programs (connected to VIDEO inputs).
   TAPE: For listening to a tape.
   CD: For listening to or recording a compact disc.
   TUNER: For listening to or recording the radio.
   PHONO: For listening to or recording a phono record.

9. **10-key station preset selector**
   Used for quick tuning of frequently used radio stations.

10. **ENTER button**
    Completes station preset selections.

11. **POWER switch**

12. **HEADPHONES jack** (stereo phone jack)
    Connect the headphones. The headphone volume can be adjusted with VOLUME. For headphone listening only, release both SPEAKERS.

13. **SPEAKERS selectors**
    Select speaker system A or B, or both.

14. **5-band graphic equalizer**
    Slide downward or upward to adjust the tone. First set all controls to the center position ("0"), then slide each control gradually until you perceive an improvement. When the tone adjustment using the equalizer is not required, set the controls to the center position.

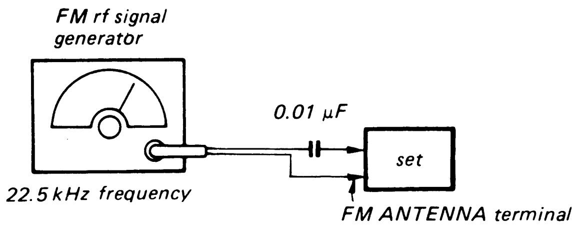
15. **BALANCE control**
    Adjusts the balance of the left and right channel output level.

16. **VOLUME control**

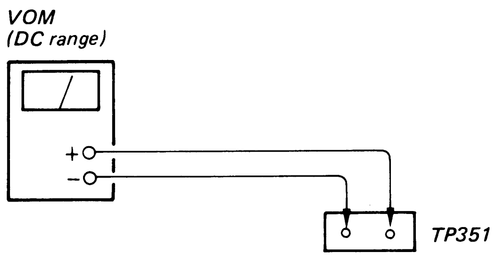
SECTION 1
ELECTRICAL ADJUSTMENTS

FM Discriminator Alignment (NULL Check)

Setting:


FM rf signal generator
0.01 μF
set
22.5 kHz frequency
FM ANTENNA terminal

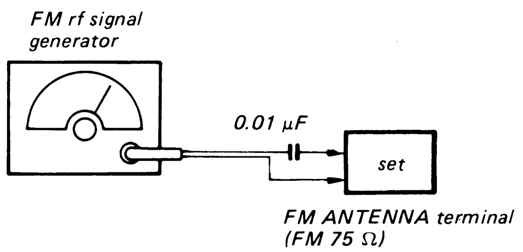
Carrier frequency: 98 MHz
Modulation: 1 kHz, 40 kHz deviation
Output level: 1 mV (60 dB)


VOM
(DC range)
+
−
TP351

Procedure:

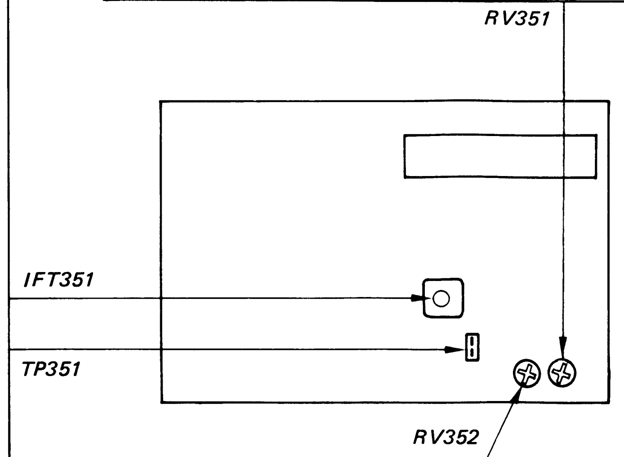
1. Push the TUNING (+, −) button for 98 MHz.
2. Adjust IFT351 for 0 V reading on the VOM.

FM Muting Level Adjustment


FM rf signal generator
0.01 μF
set
FM ANTENNA terminal
(FM 75 Ω)

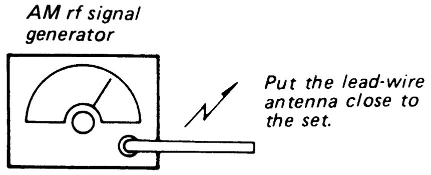
Carrier frequency: 98 MHz
Modulation: 1 kHz, 40 kHz deviation
Output level: 17.9 μV (25 dB)

1. Push the TUNING (+, −) button for 98 MHz.
2. Adjust RV351, then check that "TUNED" is flashed on the indicator.


RV351
IFT351
TP351
RV352

AM Muting Level Adjustment

Setting:
BAND selector switch: AM


AM rf signal generator
Put the lead-wire antenna close to the set.

30% amplitude modulation by 400 Hz signal

Carrier frequency: 999 kHz
Output level: 0.79 mV (58 dB)

1. Push the TUNING (+, −) button for 999 kHz.
2. Adjust RV352, then check that "TUNED" is flashed on the indicator.

SECTION 2
DIAGRAMS

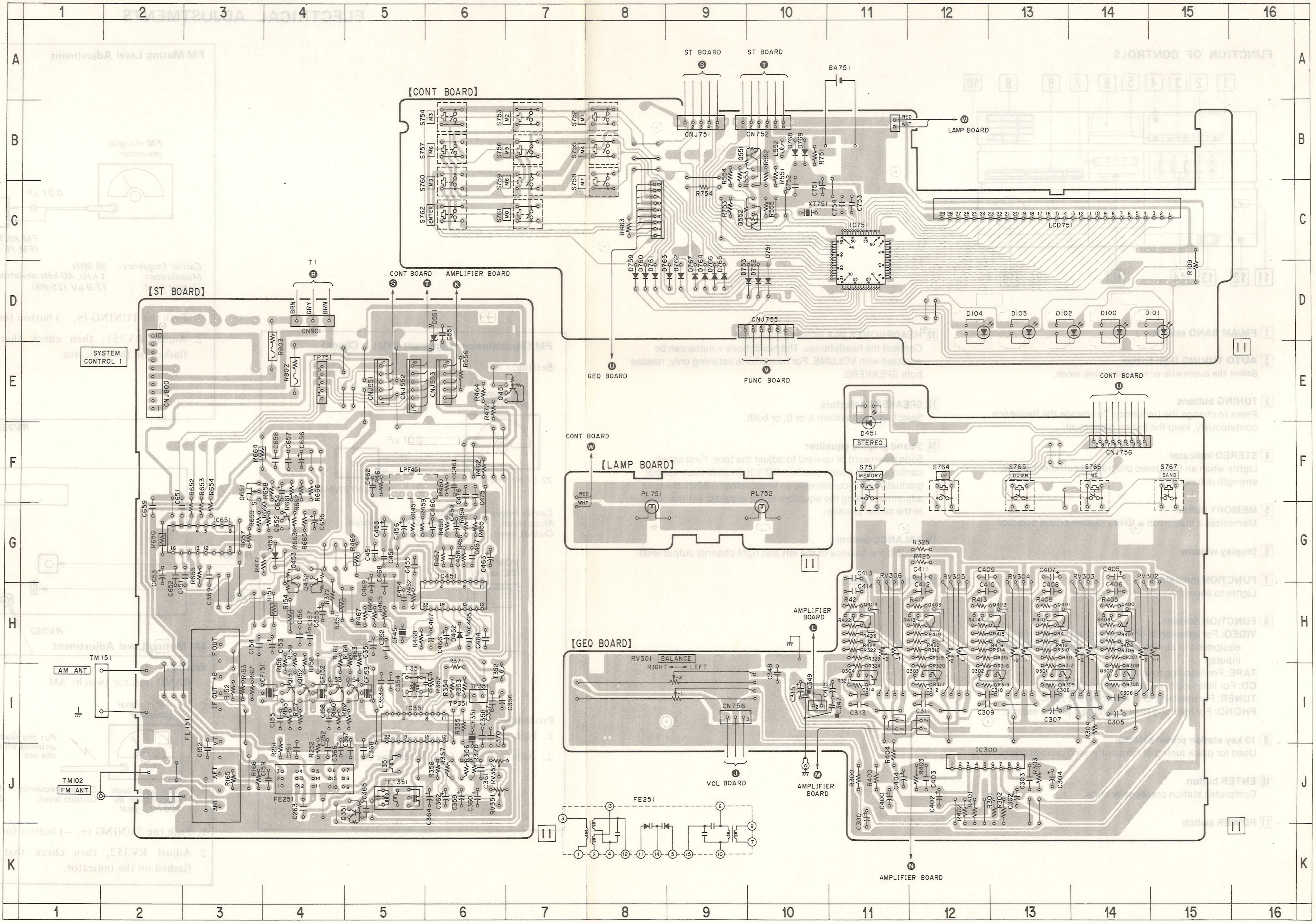
2-1. TUNER SECTION MOUNTING DIAGRAM

- See page 10 for Semiconductor Lead Layouts.

- ○— : parts extracted from the component side.
- ■ : part mounted on the conductor side.

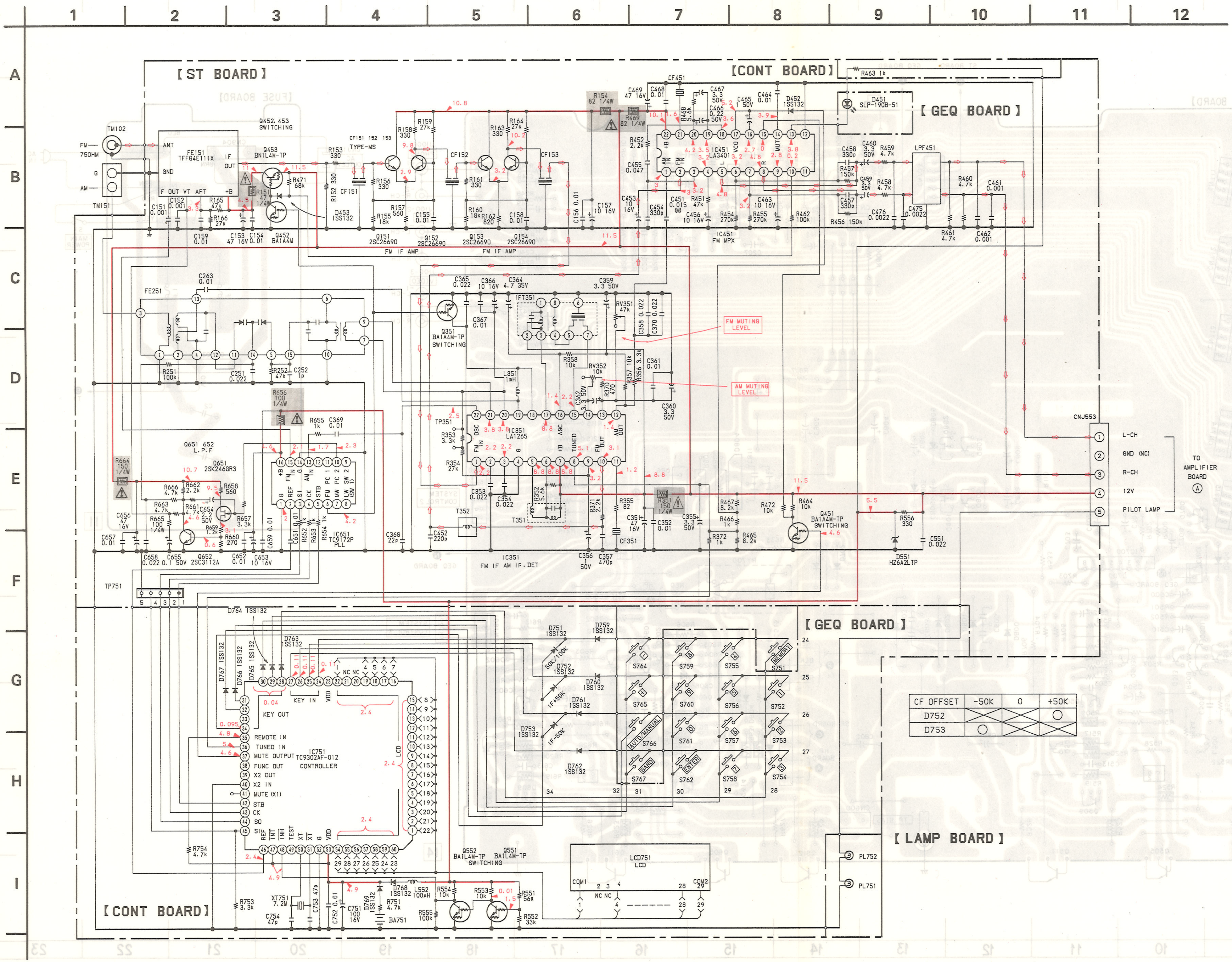
• SEMICONDUCTOR LOCATION

Ref. No.	Location
D100	D-14
D101	D-15
D102	D-13
D103	D-13
D104	D-12
D451	E-11
D452	H-6
D453	G-4
D551	D-6
D751	D-10
D752	D-10
D753	D-10
D759	D-8
D760	D-8
D761	D-8
D762	D-9
D763	D-9
D764	D-9
D765	D-9
D766	D-9
D767	D-9
D768	B-10
D769	B-10
IC300	J-12
IC351	I-5
IC451	H-6
IC651	G-3
IC751	C-11
Q151	I-4
Q152	I-4
Q153	I-4
Q154	I-4
Q300	I-14
Q301	I-13
Q302	I-12
Q303	I-12
Q304	I-11
Q351	J-5
Q400	H-14
Q401	H-13
Q402	H-13
Q403	H-12
Q404	H-11
Q451	E-7
Q452	G-4
Q453	G-4
Q551	B-10
Q552	C-10
Q651	F-3
Q652	G-4



1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16
A B C D E F G H I J K
ST BOARD
S
ST BOARD
T
BA751
[CONT BOARD]
S754
S753
S752
S757
S756
S755
S760
S759
S758
S762
S761
CNJ751
CN752
RED
WHT
W
LAMP BOARD
Q551
R552
L552
D768
D769
R751
R754
R554
R551
C752
C751
XT751
R553
Q552
C754
C753
IC751
LCD751
R463
D759
D760
D761
D762
D763
D764
D765
D766
D767
D753
D752
D751
R109
D104
D103
D102
D100
D101
CNJ755
II
T1
R
CONT BOARD
S
T
AMPLIFIER BOARD
K
[ST BOARD]
BRN
GRY
BRN
CN901
R803
R802
TP751
CNJ551
CNJ552
CNJ553
D551
C551
R556
R464
R472
Q451
SYSTEM CONTROL I
CNJ800
U
GEQ BOARD
V
FUNC BOARD
CONT BOARD
U
D451
STEREO
CNJ756
S751
MEMORY
S764
UP
S765
DOWN
S766
MS
S767
BAND
CONT BOARD
W
[LAMP BOARD]
RED
WHT
PL751
PL752
II
LPF451
IC651
IC451
Q651
Q652
Q653
Q452
Q453
D453
D452
C659
R652
R653
R654
R656
R657
R659
R664
R666
C658
C657
C656
C655
C653
C652
C369
R351
R151
R154
C156
C157
C355
R372
R469
R471
R467
R466
R465
R468
C461
C462
C460
C459
C458
C456
C463
C455
C452
C454
C453
C451
C464
C465
C466
C467
R462
R461
R457
R458
R459
R451
R454
R455
R456
C475
AM ANT
TM151
TM102
FM ANT
FE151
IF OUT
FOUT
AFT
ANT
VT
C152
R152
R153
R165
R166
CF151
CF152
CF153
Q151
Q152
Q153
Q154
T351
R371
TP351
T352
IC351
R355
R354
R352
CF351
C358
C357
C356
C370
C353
C354
C368
C366
R251
R252
C251
C263
FE251
L351
IFT351
R359
R357
R356
R378
C361
C362
C364
C365
C359
C360
RV351
RV352
Q351
[GEQ BOARD]
RV301 BALANCE
RIGHT LEFT
C348
C349
C415
C315
C347
CN756
J
VOL BOARD
AMPLIFIER BOARD
L
AMPLIFIER BOARD
M
RV306
RV305
RV304
RV303
RV302
R325
R425
C411
C412
C413
C414
C409
C410
C407
C408
C405
C406
R421
R422
R423
R424
R322
R323
R324
Q404
Q403
Q402
Q401
Q400
Q304
Q303
Q302
Q301
Q300
R417
R418
R419
R409
R405
R407
R406
C313
C311
C309
C307
C305
C306
R304
R404
IC300
R303
C303
C304
C400
C402
C403
C404
R300
R400
R401
R402
R301
R302
C300
C301
C302
II
N
AMPLIFIER BOARD
FE251
1 2 3 4 5 6 7 9 10 11 12 13 14 15

2-2. TUNER SECTION SCHEMATIC DIAGRAM


[ST BOARD]
[CONT BOARD]
[GEQ BOARD]
[LAMP BOARD]
IC451 LA3401 FM MPX
IC351 LA1265 FM IF AM IF, DET
IC651 TC9172P PLL
IC751 TC9302AF-012 CONTROLLER
FE151 TFFG4E111X
LCD751 LCD
CNJ553
TO AMPLIFIER BOARD Ⓐ
FM MUTING LEVEL
AM MUTING LEVEL

CF OFFSET	-50K	0	+50K
D752	☒	☒	○
D753	○	☒	☒

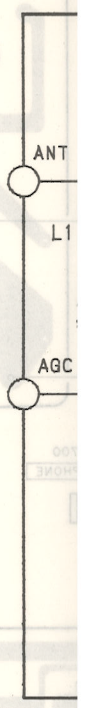
Note:

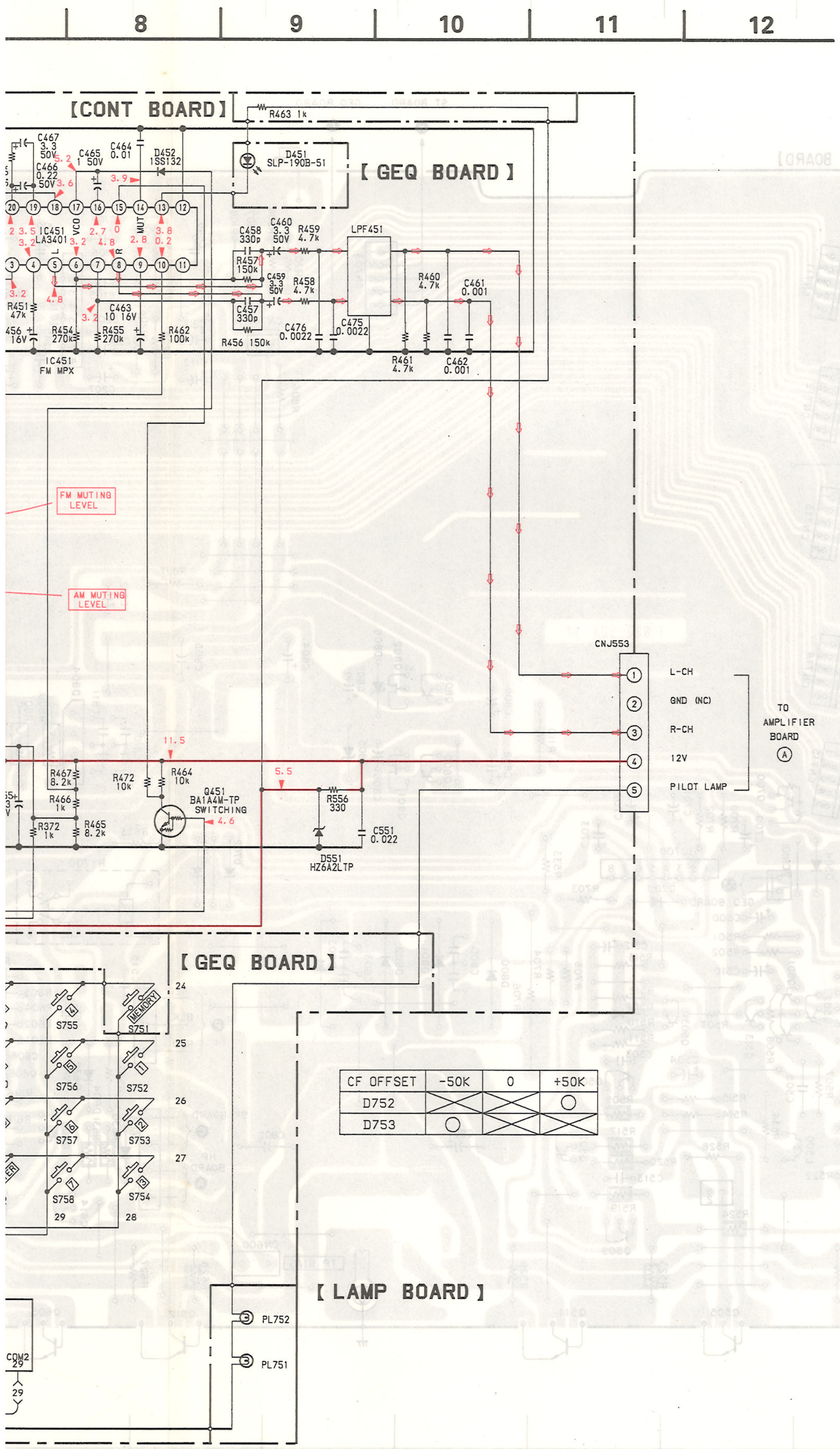
- All capacitors are in μF unless otherwise noted. pF: μμF 50WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in Ω and ¼ W or less unless otherwise specified.
- ⊟ : nonflammable resistor.
- ⊟ : fusible resistor.
- ⇨ : signal path.
- ▬▬ : B+ bus.
- ▬ ▬ : B– bus.
- ▭ : adjustment for repair.
- Voltages are dc with respect to ground unless otherwise noted.
- Readings are taken under no-signal (detuned) conditions with a VOM (50 kΩ/V).
  no mark :
  ( ):
  < >:
- Voltage variations may be noted due to normal production tolerances.
- Switch

Ref. No.	Switch	Position
S1	POWER	OFF
S100-1	PHONO	ON
S100-2	TUNER	OFF
S100-3	CD	OFF
S100-4	TAPE	OFF
S100-5	VIDEO	OFF
S500-1	SPEAKERS-A	ON
S500-2	SPEAKERS-B	OFF
S751	MEMORY	
S752	1	
S753	2	
S754	3	
S755	4	
S756	5	
S757	6	
S758	7	
S759	8	
S760	9	
S761	0	
S762	ENTER	
S764	+	
S765	–	
S766	PRESET TUNING	
S767	FM/AM	

Note: The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.

● FE15




8
9
10
11
12
[CONT BOARD]
[GEQ BOARD]
R463 1k
C467 3.3 50V
C466 0.22 50V
C465 1 50V
C464 0.01
D452 1SS132
D451 SLP-190B-51
IC451 LA3401
IC451 FM MPX
VCO
MUT
L
R
5.2
3.6
3.9
3.5
3.2
2.7
0
2.8
4.8
3.8
0.2
R451 47k
R454 270k
R455 270k
C463 10 16V
R462 100k
C458 330p
C460 3.3 50V
R459 4.7k
R457 150k
C459 3.3 50V
R458 4.7k
C457 330p
R456 150k
C476 0.0022
C475 0.0022
LPF451
R460 4.7k
C461 0.001
R461 4.7k
C462 0.001
FM MUTING LEVEL
AM MUTING LEVEL
CNJ553
L-CH
GND (NC)
R-CH
12V
PILOT LAMP
TO AMPLIFIER BOARD
Ⓐ
11.5
5.5
4.6
R467 8.2k
R466 1k
R372 1k
R465 8.2k
R472 10k
R464 10k
Q451 BA1A4M-TP SWITCHING
R556 330
C551 0.022
D551 HZ6A2LTP
[GEQ BOARD]
S755
S751
MEMORY
S756
S752
S757
S753
S758
S754
24
25
26
27
28
29
COM2 29
[LAMP BOARD]
PL752
PL751

CF OFFSET	-50K	0	+50K
D752	☒	☒	○
D753	○	☒	☒

Note:

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  ( ):
  < >:
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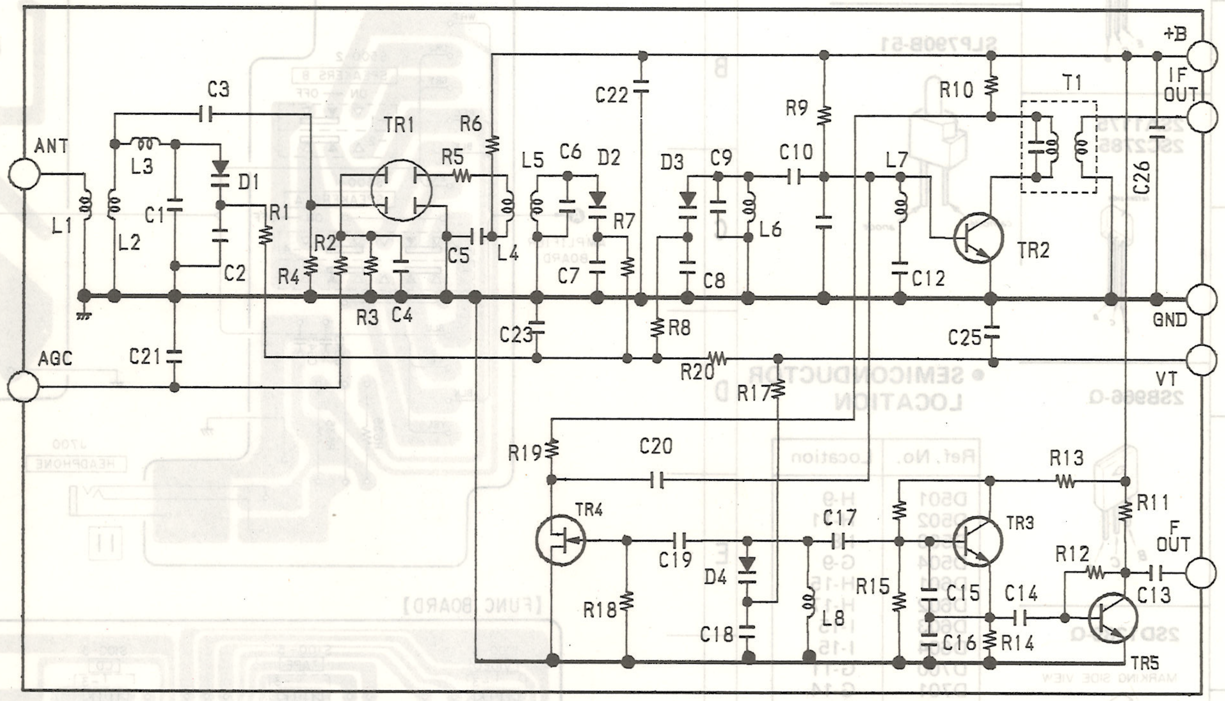
S100-2	TUNER	OFF
S100-3	CD	OFF
S100-4	TAPE	OFF
S100-5	VIDEO	OFF
S500-1	SPEAKERS-A	ON
S500-2	SPEAKERS-B	OFF
S751	MEMORY	
S752	1	
S753	2	
S754	3	
S755	4	
S756	5	
S757	6	
S758	7	
S759	8	
S760	9	
S761	0	
S762	ENTER	
S764	+	
S765	–	
S766	PRESET TUNING	
S767	FM/AM	

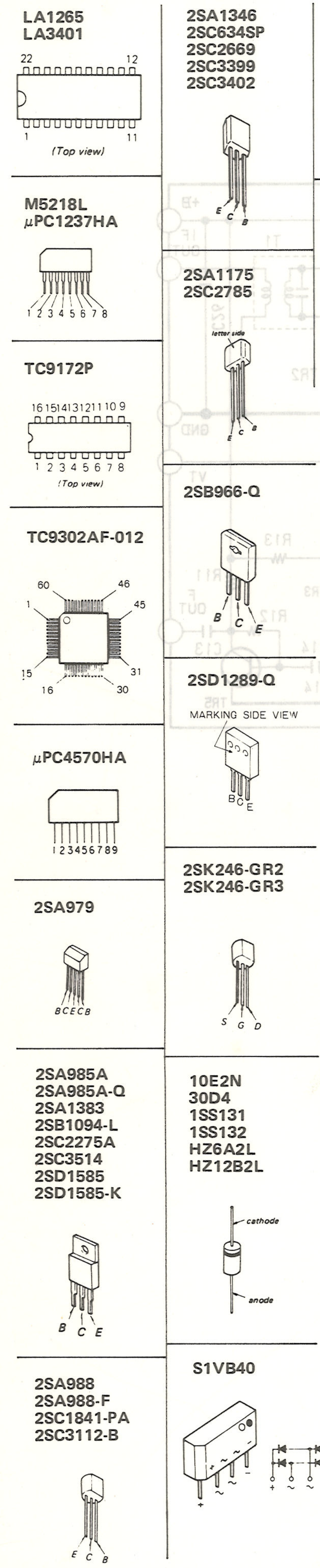
Note: The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.

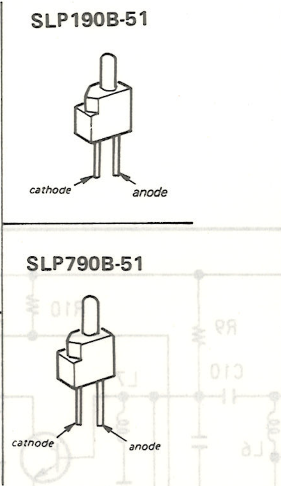
- FE151 FM FRONT END SCHEMATIC DIAGRAM


ANT
AGC
L1
L2
L3
C1
C2
C3
D1
R1
R4
R2
R3
C4
TR1
R5
R6
C5
L4
L5
C6
D2
R7
C7
C23
C22
D3
C9
C8
L6
R8
R20
R17
C10
R9
L7
C12
TR2
R10
T1
C26
C25
+B
IF OUT
GND
VT
C21
R19
C20
TR4
C19
R18
D4
C18
L8
C17
R15
C15
C16
R14
C14
TR3
R13
R11
R12
C13
TR5
F OUT

2-3. AMPLIFIER SECTION MOUNTING DIAGRAM

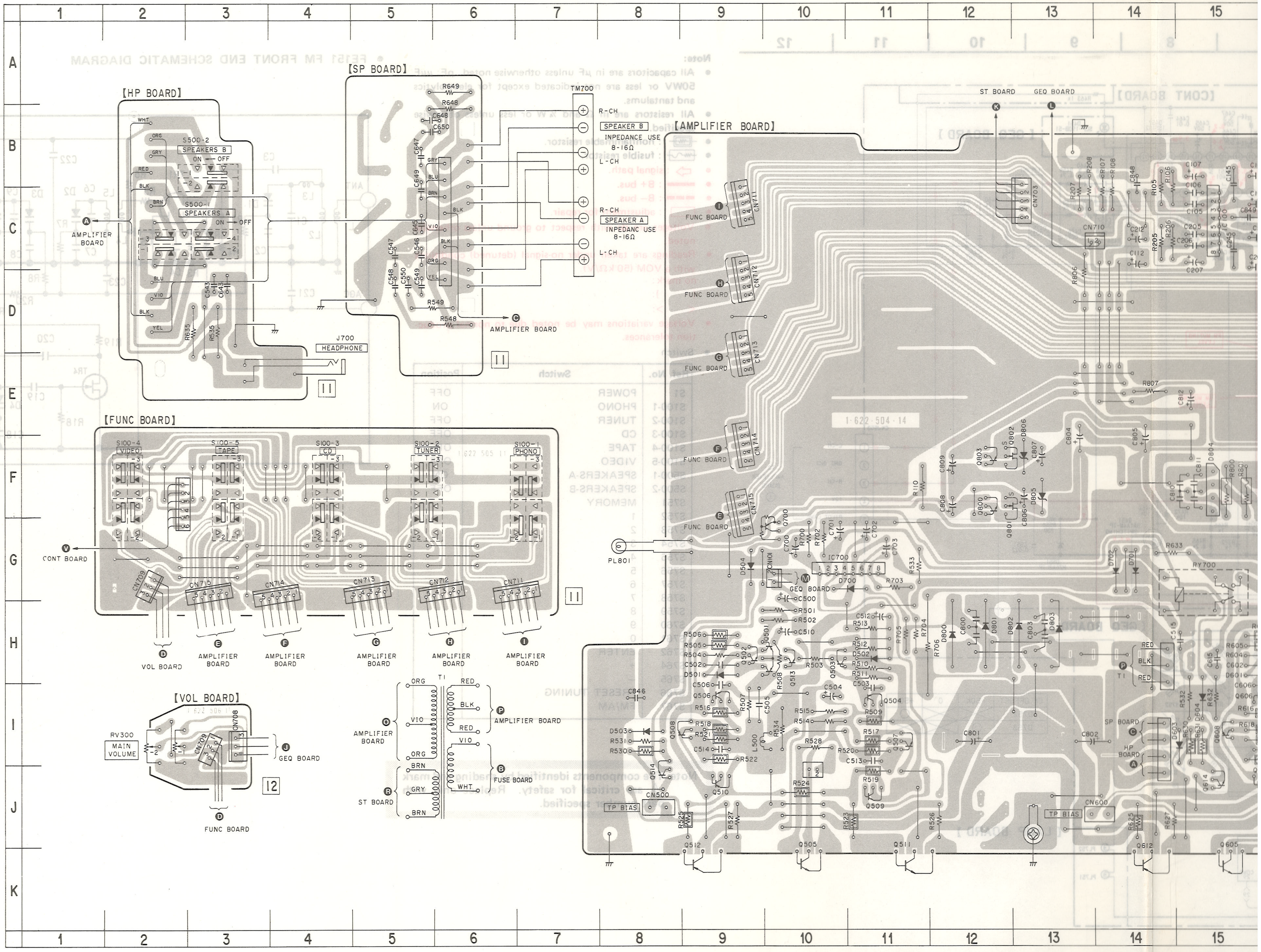
- **Semiconductor Lead Layouts**


LA1265
LA3401
22
12
1
11
(Top view)
M5218L
μPC1237HA
1 2 3 4 5 6 7 8
TC9172P
16 15 14 13 12 11 10 9
1 2 3 4 5 6 7 8
(Top view)
TC9302AF-012
60
46
1
45
15
31
16
30
μPC4570HA
1 2 3 4 5 6 7 8 9
2SA979
B C E C B
2SA985A
2SA985A-Q
2SA1383
2SB1094-L
2SC2275A
2SC3514
2SD1585
2SD1585-K
B C E
2SA988
2SA988-F
2SC1841-PA
2SC3112-B
E C B
2SA1346
2SC634SP
2SC2669
2SC3399
2SC3402
E C B
2SA1175
2SC2785
letter side
E C B
2SB966-Q
B C E
2SD1289-Q
MARKING SIDE VIEW
B C E
2SK246-GR2
2SK246-GR3
S G D
10E2N
30D4
1SS131
1SS132
HZ6A2L
HZ12B2L
cathode
anode
S1VB40
~ ~ + -

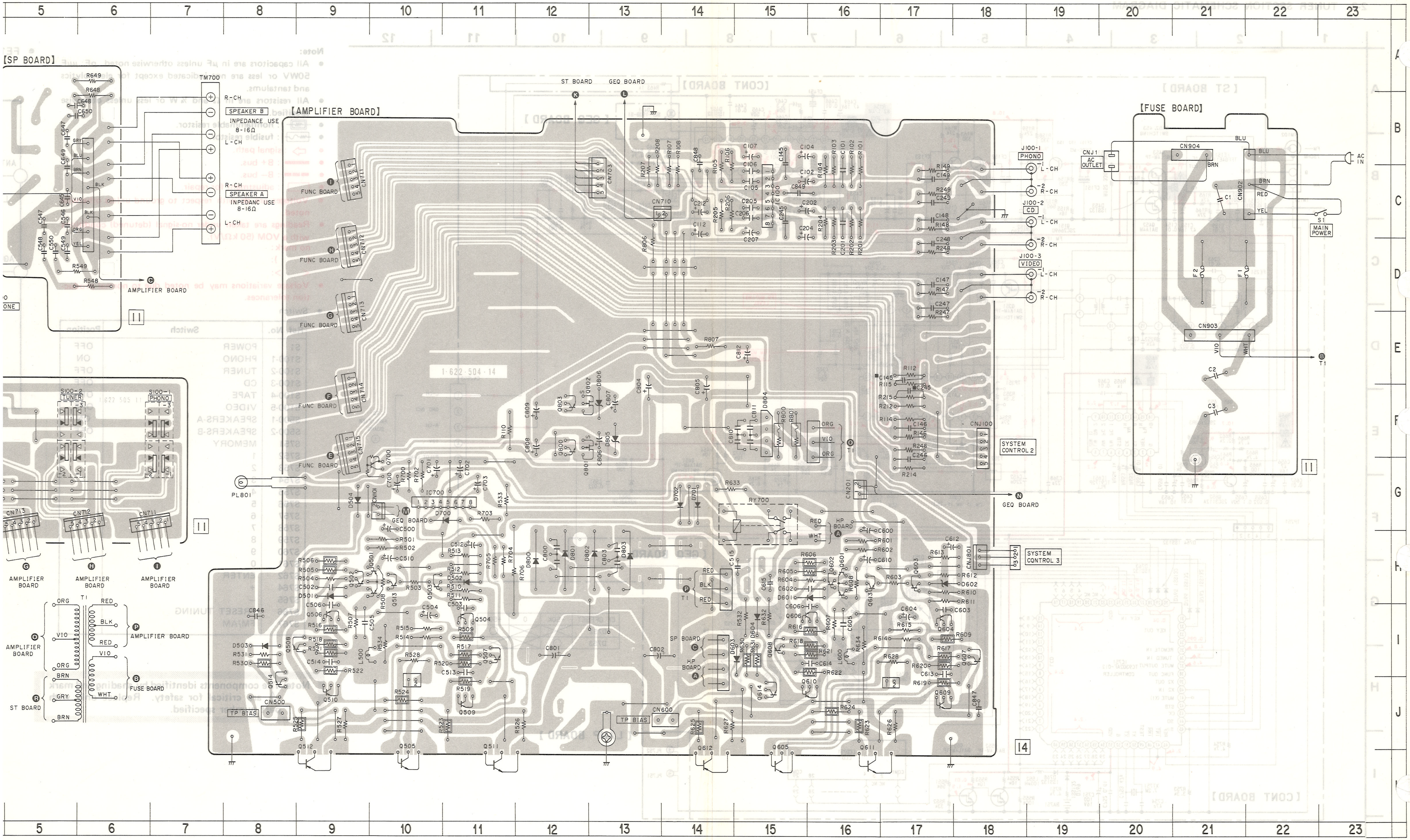

SLP190B-51
cathode
anode
SLP790B-51
cathode
anode

- **SEMICONDUCTOR LOCATION**

Ref. No.	Location
D501	H-9
D502	H-11
D503	I-8
D504	G-9
D601	H-15
D602	H-17
D603	I-15
D604	I-15
D700	G-11
D701	G-14
D702	G-14
D800	H-12
D801	H-12
D802	H-13
D803	H-13
D804	F-15
D805	F-13
D806	F-13
IC100	C-15
IC700	G-10
Q501	H-9
Q502	H-9
Q503	H-10
Q504	I-11
Q505	K-10
Q506	I-9
Q507	I-11
Q508	I-9
Q509	J-11
Q510	J-9
Q511	K-11
Q512	K-9
Q513	H-10
Q514	J-8
Q601	H-16
Q602	H-16
Q603	H-17
Q604	I-17
Q605	K-15
Q606	I-16
Q607	I-18
Q608	I-15
Q609	J-18
Q610	J-16
Q611	K-16
Q612	K-14
Q613	H-16
Q614	J-15
Q700	G-10
Q800	F-12
Q801	F-12
Q802	F-12
Q803	F-12

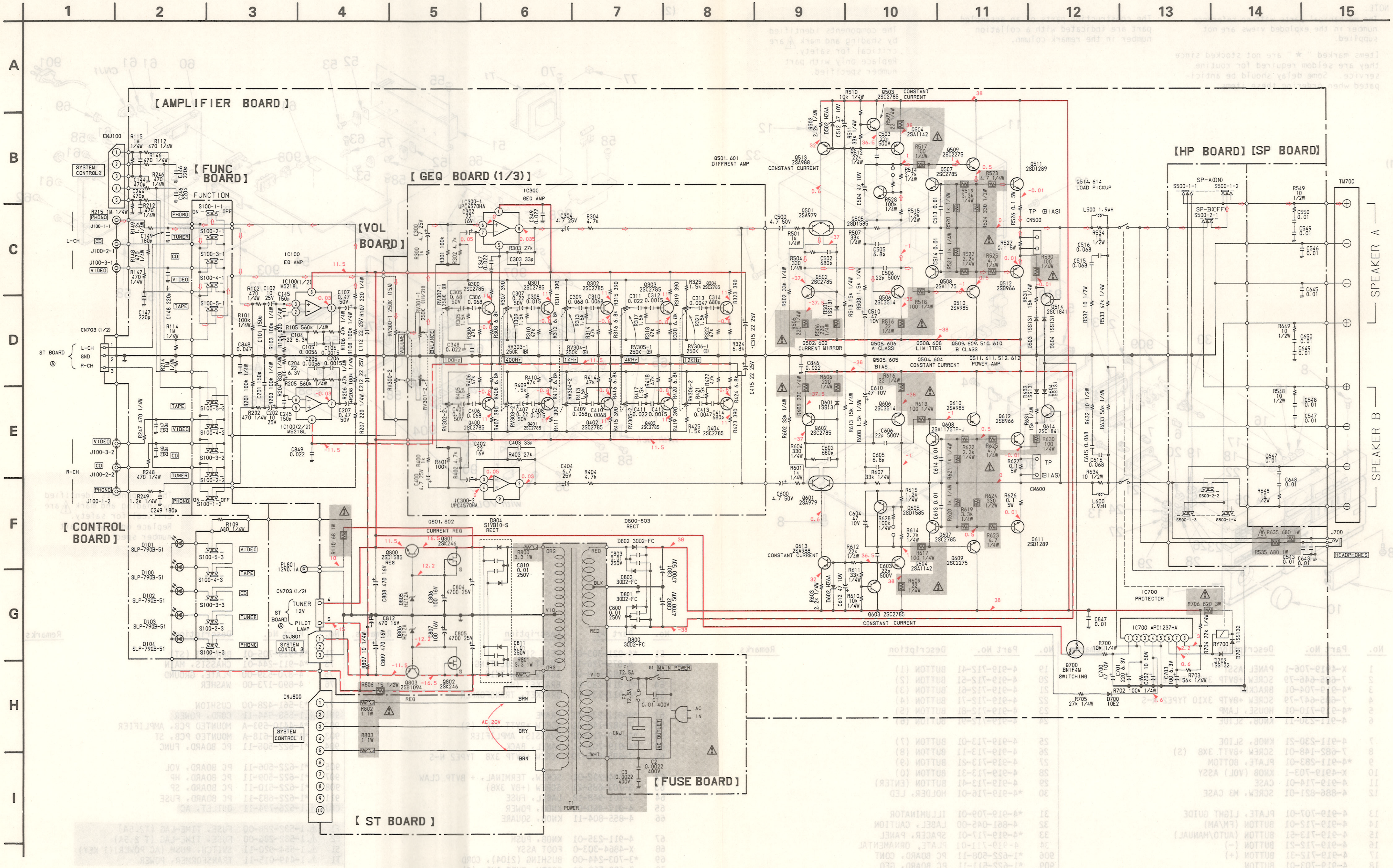

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15
A B C D E F G H I J K
[HP BOARD]
S500-2 SPEAKERS B
ON — OFF
S500-1 SPEAKERS A
ON — OFF
WHT
ORG
GRY
RED
BLK
BRN
BLU
VIO
YEL
AMPLIFIER BOARD
R635
R535
C543
C643
J700
HEADPHONE
[SP BOARD]
R649
R648
C648
C650
C647
C649
C645
C546
C547
C548
C550
C549
R549
R548
TM700
R-CH
SPEAKER B
INPEDANCE USE 8-16Ω
L-CH
R-CH
SPEAKER A
INPEDANC USE 8-16Ω
L-CH
11
[FUNC BOARD]
S100-4 VIDEO
S100-5 TAPE
S100-3 CD
S100-2 TUNER
S100-1 PHONO
CONT BOARD
CN709
CN715
CN714
CN713
CN712
CN711
VOL BOARD
AMPLIFIER BOARD
[VOL BOARD]
RV300 MAIN VOLUME
CN708
CN709
GEQ BOARD
FUNC BOARD
12
T1
ORG
RED
BLK
VIO
RED
VIO
ORG
BRN
GRY
WHT
BRN
AMPLIFIER BOARD
FUSE BOARD
ST BOARD
[AMPLIFIER BOARD]
ST BOARD
GEQ BOARD
CN703
CN710
CN711
CN712
CN713
CN714
CN715
FUNC BOARD
1-622-504-14
PL801
CN101
IC700
D700
GEQ BOARD
R703
R533
C500
R501
R502
C510
R506
R505
R504
C502
D501
C506
Q506
R516
R518
R521
C514
R522
D503
R531
R530
Q514
Q508
Q510
CN500
TP BIAS
R525
Q512
R527
Q505
R523
Q511
R526
Q509
R524
R519
C513
R520
R528
R517
R509
Q504
C503
C504
R515
R514
R534
L500
R507
R508
Q513
R503
R510
R511
R512
D502
R513
C512
R705
R704
R706
D800
C800
D801
D802
C803
D803
C801
C802
CN600
TP BIAS
R625
Q612
R627
Q605
R632
R532
D603
D604
SP BOARD
HP BOARD
RED
BLK
RED
T1
C515
C846
Q700
C701
C702
C703
R700
R701
R702
D504
D702
D701
R633
RY700
R110
C809
Q803
Q802
D806
C807
C808
Q800
Q801
D805
D804
C804
C805
C812
R807
R806
R207
R208
R107
R108
C848
R105
R106
C107
C106
C105
C145
R205
R206
C205
C206
C207
C212
C112
D804
C811
C810
R605
R604
C602
D601
C606
Q606
R618
Q608
Q614
Q610

Note:
- ○— : parts extracted from the component side.
- ■ : part mounted on the conductor side.


[SP BOARD]
TM700
R-CH
L-CH
SPEAKER B
SPEAKER A
INPEDANC USE 8-16Ω
AMPLIFIER BOARD
[AMPLIFIER BOARD]
ST BOARD
GEQ BOARD
FUNC BOARD
CN711
CN712
CN713
CN714
CN715
CN703
CN710
1-622-504-14
J100-1 PHONO
J100-2 CD
J100-3 VIDEO
L-CH
R-CH
SYSTEM CONTROL 2
SYSTEM CONTROL 3
CNJ100
CNJ101
HP BOARD
RY700
PL801
IC700
CN500
CN600
TP BIAS
[FUSE BOARD]
CN904
CN902
CN903
CNJ1
AC OUTLET
AC IN
S1
MAIN POWER
BLU
BRN
RED
YEL
VIO
WHT
ORG
BLK
GRY
T1
FUSE BOARD
S100-2 TUNER
S100-1 PHONO
11
14

2-4. AMPLIFIER SECTION SCHEMATIC DIAGRAM

- See page 8 for notes.


1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
A
B
C
D
E
F
G
H
I
[AMPLIFIER BOARD]
[FUNC BOARD]
FUNCTION
[GEQ BOARD (1/3)]
[VOL BOARD]
IC100 EQ AMP
IC300 GEQ AMP
[HP BOARD]
[SP BOARD]
SPEAKER A
SPEAKER B
HEADPHONES
[CONTROL BOARD]
[ST BOARD]
[FUSE BOARD]
MAIN POWER
AC OUTLET
AC IN
IC700 μPC1237HA
IC700 PROTECTOR
Q501, 601 DIFFRENT AMP
Q502, 602 CURRENT MIRROR
Q505, 605 BIAS
Q506, 606 A CLASS
Q508, 608 LIMITTER
Q509, 609, 510, 610 B CLASS
Q511, 611, 512, 612 POWER AMP
Q514, 614 LOAD PICKUP
Q503 CONSTANT CURRENT
Q513 CONSTANT CURRENT
Q603 2SC2785 CONSTANT CURRENT
Q613 2SA988 CONSTANT CURRENT
Q504, 604 CONSTANT CURRENT
Q801, 802 CURRENT REG
D804 S1VB10-S RECT
D800-803 RECT
Q700 SWITCHING
T1 POWER
ST BOARD

SECTION 3

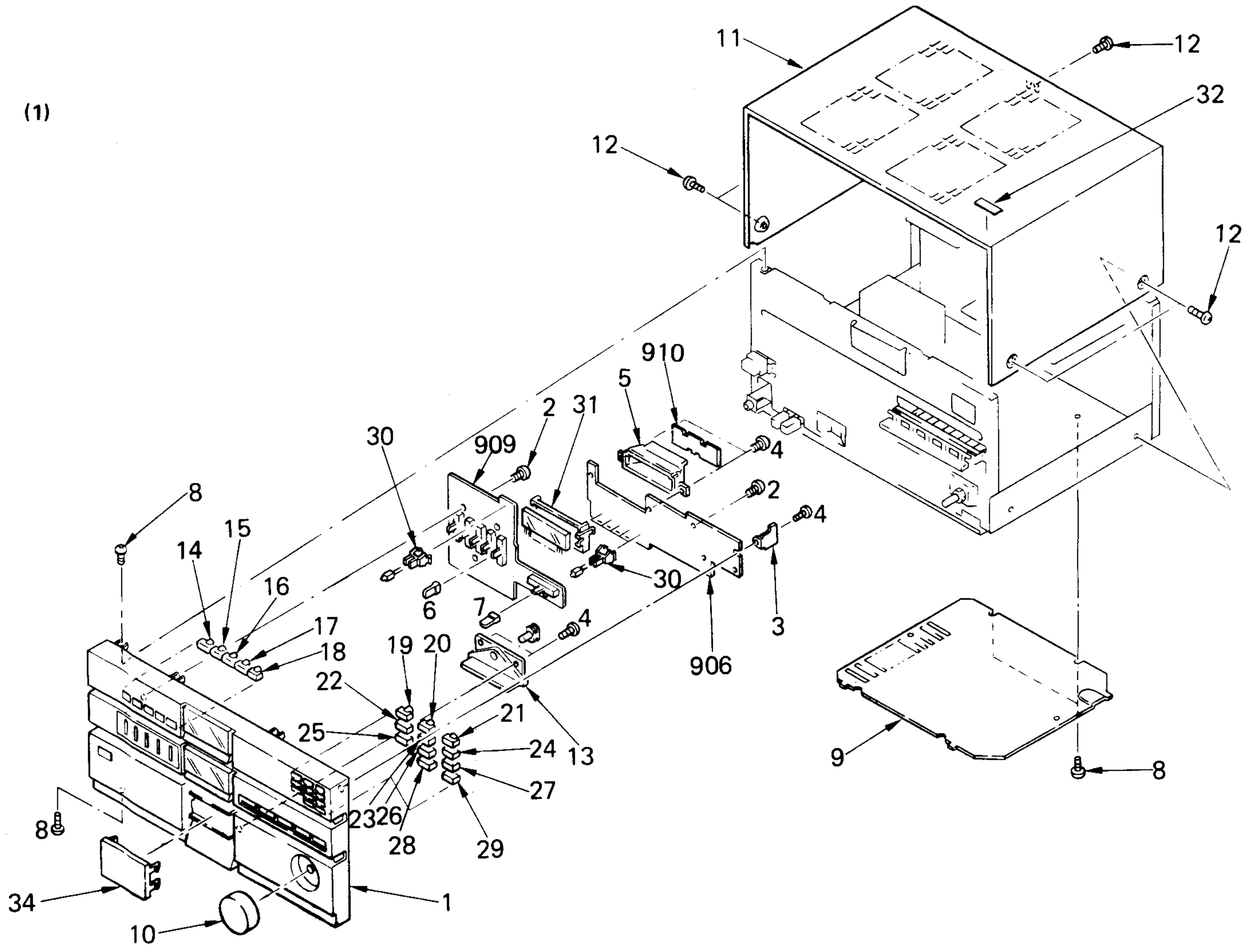
EXPLODED VIEWS AND PARTS LIST

NOTE:

- The mechanical parts with no reference number in the exploded views are not supplied.
- Items marked " ★ " are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- The construction parts of an assembled part are indicated with a collation number in the remark column.

The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.

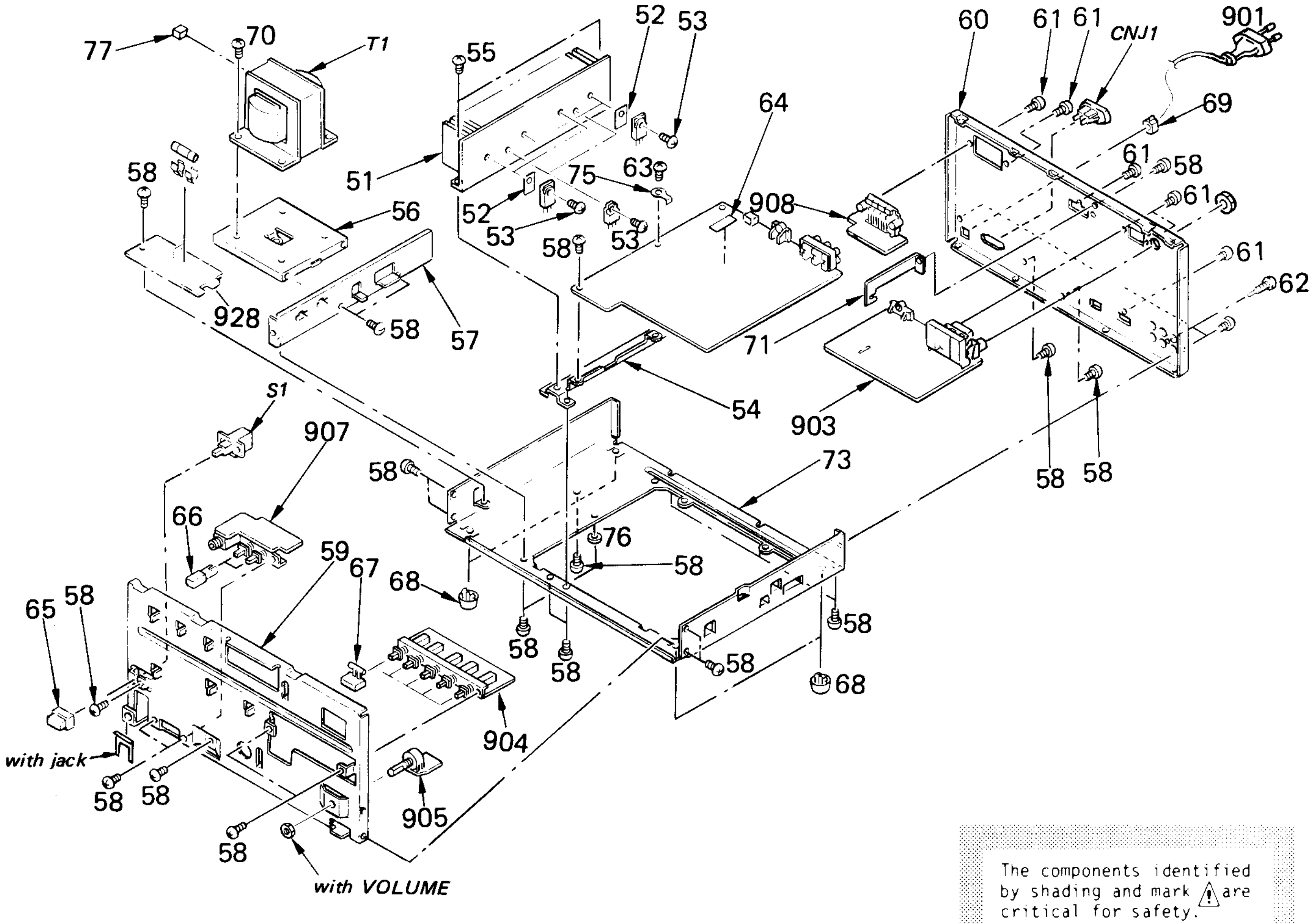
(1)



No.	Part No.	Description	Remarks
1	X-4919-706-1	PANEL ASSY	
2	7-685-646-79	SCREW +BVTP 3X8 TYPE2 N-S	
3	*4-919-704-01	BRACKET	
4	7-685-647-79	SCREW +BVTP 3X10 TYPE2 N-S	
5	*4-919-710-01	HOUSE, LAMP	
6	4-911-230-11	KNOB, SLIDE	
7	4-911-230-21	KNOB, SLIDE	
8	7-682-148-01	SCREW +BVTT 3X8 (S)	
9	*4-911-283-01	PLATE, BOTTOM	
10	X-4919-703-1	KNOB (VOL) ASSY	
11	4-919-714-01	CASE	
12	4-886-821-01	SCREW, M3 CASE	
13	4-919-707-01	PLATE, LIGHT GUIDE	
14	4-919-712-01	BUTTON (FM/AM)	
15	4-919-713-51	BUTTON (AUTO/MANUAL)	
16	4-919-712-21	BUTTON (-)	
17	4-919-712-31	BUTTON (+)	
18	4-919-703-01	BUTTON	

No.	Part No.	Description	Remarks
19	4-919-712-41	BUTTON (1)	
20	4-919-712-51	BUTTON (2)	
21	4-919-712-61	BUTTON (3)	
22	4-919-712-71	BUTTON (4)	
23	4-919-712-81	BUTTON (5)	
24	4-919-712-91	BUTTON (6)	
25	4-919-713-01	BUTTON (7)	
26	4-919-713-11	BUTTON (8)	
27	4-919-713-21	BUTTON (9)	
28	4-919-713-31	BUTTON (0)	
29	4-919-713-41	BUTTON (ENTER)	
30	*4-919-716-01	HOLDER, LED	
31	*4-919-709-01	ILLUMINATOR	
32	4-861-045-00	LABEL, CAUTION	
33	*4-919-717-01	SPACER, PANEL	
34	4-919-711-01	PLATE, ORNAMENTAL	
906	*1-622-508-11	PC BOARD, CONT	
909	*1-622-511-11	PC BOARD, GEQ	
910	*1-622-512-11	PC BOARD, LAMP	

(2)



The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.

No.	Part No.	Description	Remarks
51	*4-921-303-01	HEAT SINK	
52	4-875-726-11	SHEET, INSULATING	
53	7-682-649-09	SCREW +PSW 3X10	
54	*4-911-280-01	BRACKET (H)	
56	*4-911-239-01	BRACKET, TRANSFORMER	
57	*4-911-238-01	FRAME	
58	7-682-148-01	SCREW +BVTT 3X8 (S)	
59	*4-919-715-01	CHASSIS, AMPLIFIER	
60	*4-919-701-51	PANEL, BACK	
61	7-685-646-79	SCREW +BVTP 3X8 TYPE2 N-S	
62	3-704-242-01	SCREW, TERMINAL, + BVTP CLAW	
63	3-703-685-21	SCREW (+BV 3X8)	
64	3-701-948-18	LABEL, FUSE	
65	4-917-460-01	KNOB, POWER	
66	4-855-804-11	KNOB, SQUARE	
67	4-911-235-01	KNOB, PUSH	
68	X-4864-303-0	FOOT ASSY	
69	*3-703-244-00	BUSHING (2104), CORD	
70	7-682-560-04	SCREW +BVTT 4X6 (S)	

No.	Part No.	Description	Remarks
71	*4-919-705-01	BRACKET (ST)	
73	*4-911-244-01	CHASSIS, MAIN	
75	4-870-539-00	PLATE, GROUND	
76	4-890-173-00	WASHER	
77	*3-561-428-00	CUSHION	
901	⚠1-558-944-11	CORD, POWER	
902	*A-4410-593-A	MOUNTED PCB, AMPLIFIER	
903	*A-4351-618-A	MOUNTED PCB, ST	
904	*1-622-505-11	PC BOARD, FUNC	
905	*1-622-506-11	PC BOARD, VOL	
907	*1-622-509-11	PC BOARD, HP	
908	*1-622-510-11	PC BOARD, SP	
911	*1-622-683-11	PC BOARD, FUSE	
CNJ1	⚠1-526-794-11	OUTLET, AC	
F1	⚠1-532-286-00	FUSE, TIME-LAG (T2.5A)	
F2	⚠1-532-286-00	FUSE, TIME-LAG (T 2.5A)	
S1	⚠1-554-920-11	SWITCH, PUSH (AC POWER)(1 KEY)	
T1	⚠1-449-015-11	TRANSFORMER, POWER	

SECTION 4

ELECTRICAL PARTS LIST

NOTE :

- Items marked " ★ " are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- If there are two or more same circuitsin a set such as a stereophonic machine, only typical circuit parts may be indicated and capacitors and resistors in other same circuits may be omitted.

CAPACITORS:
MF:μF, PF:μμF.

RESISTORS
- All resistors are in ohms.
- F : nonflammable

COILS
- MMH : mH, UH : μH

SEMICONDUCTORS
In each case, U : μ, for example:
UA...: μA..., UPA...: μPA..., UPC...: μPC,
UPD...: μPD...

The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.

ELECTRICAL PARTS

Ref.No.	Part No.	Description			
901	⚠1-558-944-11	CORD, POWER			
902	*A-4410-593-A	MOUNTED PCB, AMPLIFIER			
903	*A-4351-618-A	MOUNTED PCB, ST			
904	*1-622-505-11	PC BOARD, FUNC			
905	*1-622-506-11	PC BOARD, VOL			
906	*1-622-508-11	PC BOARD, CONT			
907	*1-622-509-11	PC BOARD, HP			
908	*1-622-510-11	PC BOARD, SP			
909	*1-622-511-11	PC BOARD, GEQ			
910	*1-622-512-11	PC BOARD, LAMP			
911	*1-622-683-11	PC BOARD, FUSE			
912	*1-508-831-12	H TYPE BASE POST			
913	*1-508-833-12	H TYPE BASE POST			
914	1-533-183-11	HOLDER, FUSE			
915	*1-535-116-00	TERMINAL			
916	*1-535-117-00	TERMINAL			
917	*1-535-121-00	TERMINAL			
918	*1-535-139-00	BASE POST 22MM (10MM PITCH) 2P			
919	*1-535-140-00	BASE POST 22MM (10MM PITCH) 3P			
920	*1-535-624-11	TERMINAL, PIN JACK			
921	*1-560-060-00	PIN, CONNECTOR 2P			
923	*1-562-327-00	SOCKET, CONNECTOR 3P			
924	*1-564-505-11	PLUG, CONNECTOR 2P			
925	*1-564-505-31	PLUG, CONNECTOR 2P			
926	*1-564-505-41	PLUG, CONNECTOR 2P			
928	*1-564-509-11	PLUG, CONNECTOR 6P			
929	*1-564-518-11	PLUG, CONNECTOR 3P			
BA751	1-528-120-00	BATTERY, LITHIUM (CR-2025)			
C1	⚠1-161-744-00	CERAMIC	0.01MF		400V
C2	⚠1-161-742-00	CERAMIC	0.0022MF	20%	400V
C3	⚠1-161-742-00	CERAMIC	0.0022MF	20%	400V
C101	1-162-284-31	CERAMIC	150PF	10%	50V
C102	1-124-247-00	ELECT	10MF	20%	25V
C104	1-124-638-11	ELECT	22MF	20%	6.3V
C105	1-130-480-00	MYLAR	0.0056MF	5%	50V
C106	1-130-473-00	MYLAR	0.0015MF	5%	50V
C107	1-124-902-00	ELECT	0.47MF	20%	50V
C112	1-124-908-11	ELECT	22MF	20%	25V
C144	1-161-319-00	CERAMIC	470PF	10%	50V
C145	1-162-284-31	CERAMIC	150PF	10%	50V
C146	1-162-286-31	CERAMIC	220PF	10%	50V
C147	1-162-286-31	CERAMIC	220PF	10%	50V
C148	1-162-286-31	CERAMIC	220PF	10%	50V

ELECTRICAL PARTS

Ref.No.	Part No.	Description			
C149	1-161-314-00	CERAMIC	180PF	10%	50V
C151	1-162-294-31	CERAMIC	0.001MF	10%	50V
C152	1-162-294-31	CERAMIC	0.001MF	10%	50V
C153	1-124-477-11	ELECT	47MF	20%	16V
C154	1-161-379-00	CERAMIC	0.01MF	30%	16V
C155	1-161-379-00	CERAMIC	0.01MF	30%	16V
C156	1-161-379-00	CERAMIC	0.01MF	30%	16V
C157	1-124-462-00	ELECT	10MF	20%	16V
C158	1-161-379-00	CERAMIC	0.01MF	30%	16V
C159	1-161-379-00	CERAMIC	0.01MF	30%	16V
C251	1-101-005-00	CERAMIC	0.022MF		50V
C252	1-162-187-31	CERAMIC	1PF	20%	50V
C263	1-161-379-00	CERAMIC	0.01MF	30%	16V
C300	1-124-245-00	ELECT	4.7MF	20%	25V
C302	1-123-622-00	ELECT	22MF	20%	16V
C303	1-162-211-31	CERAMIC	33PF	5%	50V
C304	1-124-245-00	ELECT	4.7MF	20%	25V
C305	1-124-254-00	ELECT	0.68MF	20%	50V
C306	1-136-163-00	FILM	0.068MF	5%	50V
C307	1-124-464-11	ELECT	0.22MF	20%	50V
C308	1-136-155-00	FILM	0.015MF	5%	50V
C309	1-136-163-00	FILM	0.068MF	5%	50V
C310	1-130-481-00	MYLAR	0.0068MF	5%	50V
C311	1-136-157-00	FILM	0.022MF	5%	50V
C312	1-130-473-00	MYLAR	0.0015MF	5%	50V
C313	1-130-479-00	MYLAR	0.0047MF	5%	50V
C314	1-130-469-00	MYLAR	680PF	5%	50V
C315	1-124-908-11	ELECT	22MF	20%	25V
C347	1-101-005-00	CERAMIC	0.022MF		50V
C348	1-101-005-00	CERAMIC	0.022MF		50V
C349	1-101-005-00	CERAMIC	0.022MF		50V
C351	1-124-477-11	ELECT	47MF	20%	16V
C352	1-161-379-00	CERAMIC	0.01MF	30%	16V
C353	1-101-005-00	CERAMIC	0.022MF		50V
C354	1-101-005-00	CERAMIC	0.022MF		50V
C355	1-124-258-00	ELECT	3.3MF	20%	50V
C356	1-123-611-00	ELECT	1MF	20%	50V
C357	1-162-290-31	CERAMIC	470PF	10%	50V
C358	1-161-494-00	CERAMIC	0.022MF		25V
C359	1-124-258-00	ELECT	3.3MF	20%	50V
C360	1-124-258-00	ELECT	3.3MF	20%	50V
C361	1-161-379-00	CERAMIC	0.01MF	30%	16V
C362	1-124-258-00	ELECT	3.3MF	20%	50V
C364	1-124-245-00	ELECT	4.7MF	20%	35V
C365	1-101-005-00	CERAMIC	0.022MF		50V
C366	1-124-462-00	ELECT	10MF	20%	16V

ELECTRICAL PARTS

Ref.No.	Part No.	Description			
C367	1-161-379-00	CERAMIC	0.01MF	30%	16V
C368	1-162-207-31	CERAMIC	22PF	5%	50V
C369	1-161-379-00	CERAMIC	0.01MF	30%	16V
C370	1-161-494-00	CERAMIC	0.022MF		25V
C451	1-136-155-00	FILM	0.015MF	5%	50V
C452	1-162-286-31	CERAMIC	220PF	10%	50V
C453	1-124-462-00	ELECT	10MF	20%	16V
C454	1-162-288-31	CERAMIC	330PF	10%	50V
C455	1-101-006-00	CERAMIC	0.047MF		50V
C456	1-124-462-00	ELECT	10MF	20%	16V
C457	1-162-288-31	CERAMIC	330PF	10%	50V
C458	1-162-288-31	CERAMIC	330PF	10%	50V
C459	1-124-258-00	ELECT	3.3MF	20%	50V
C460	1-124-258-00	ELECT	3.3MF	20%	50V
C461	1-162-294-31	CERAMIC	0.001MF	10%	50V
C462	1-162-294-31	CERAMIC	0.001MF	10%	50V
C463	1-124-462-00	ELECT	10MF	20%	16V
C464	1-161-379-00	CERAMIC	0.01MF	30%	16V
C465	1-123-611-00	ELECT	1MF	20%	50V
C466	1-124-464-11	ELECT	0.22MF	20%	50V
C467	1-124-258-00	ELECT	3.3MF	20%	50V
C468	1-161-379-00	CERAMIC	0.01MF	30%	16V
C469	1-124-477-11	ELECT	47MF	20%	16V
C475	1-161-375-00	CERAMIC	0.0022MF	30%	16V
C476	1-161-375-00	CERAMIC	0.0022MF	30%	16V
C500	1-124-927-11	ELECT	4.7MF	20%	50V
C502	1-162-292-31	CERAMIC	680PF	10%	50V
C503	1-161-959-00	CERAMIC	22PF	10%	500V
C504	1-124-446-11	ELECT	47MF	20%	10V
C505	1-162-197-31	CERAMIC	6.8PF	10%	50V
C506	1-161-959-00	CERAMIC	22PF	10%	500V
C510	1-124-446-11	ELECT	47MF	20%	10V
C512	1-124-446-11	ELECT	47MF	20%	10V
C513	1-136-153-00	FILM	0.01MF	5%	50V
C514	1-136-153-00	FILM	0.01MF	5%	50V
C515	1-136-163-00	FILM	0.068MF	5%	50V
C516	1-136-163-00	FILM	0.068MF	5%	50V
C543	1-101-004-00	CERAMIC	0.01MF		50V
C546	1-136-153-00	FILM	0.01MF	5%	50V
C547	1-136-153-00	FILM	0.01MF	5%	50V
C548	1-136-153-00	FILM	0.01MF	5%	50V
C549	1-136-153-00	FILM	0.01MF	5%	50V
C550	1-136-153-00	FILM	0.01MF	5%	50V
C551	1-101-005-00	CERAMIC	0.022MF		50V
C643	1-101-004-00	CERAMIC	0.01MF		50V
C645	1-136-153-00	FILM	0.01MF	5%	50V
C647	1-136-153-00	FILM	0.01MF	5%	50V
C648	1-136-153-00	FILM	0.01MF	5%	50V
C649	1-136-153-00	FILM	0.01MF	5%	50V
C650	1-136-153-00	FILM	0.01MF	5%	50V
C651	1-161-379-00	CERAMIC	0.01MF	30%	16V
C652	1-161-379-00	CERAMIC	0.01MF	30%	16V
C653	1-124-462-00	ELECT	10MF	20%	16V
C654	1-124-257-00	ELECT	2.2MF	20%	50V
C655	1-124-463-00	ELECT	0.1MF	20%	50V
C656	1-124-477-11	ELECT	47MF	20%	16V
C657	1-161-379-00	CERAMIC	0.01MF	30%	16V

The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.

ELECTRICAL PARTS

Ref.No.	Part No.	Description			
C658	1-101-005-00	CERAMIC	0.022MF		50V
C659	1-161-379-00	CERAMIC	0.01MF	30%	16V
C700	1-124-446-11	ELECT	47MF	20%	10V
C701	1-124-444-00	ELECT	220MF	20%	6.3V
C702	1-123-875-11	ELECT	10MF	20%	50V
C703	1-124-468-11	ELECT	100MF	20%	6.3V
C751	1-126-101-11	ELECT	100MF	20%	16V
C752	1-161-379-00	CERAMIC	0.01MF	30%	16V
C753	1-101-880-00	CERAMIC	47PF	5%	50V
C754	1-101-880-00	CERAMIC	47PF	5%	50V
C800	1-102-355-00	CERAMIC	0.01MF		250V
C801	1-126-138-11	ELECT	4700MF	20%	50V
C802	1-126-138-11	ELECT	4700MF	20%	50V
C803	1-102-355-00	CERAMIC	0.01MF		250V
C804	1-124-564-11	ELECT	4700MF	20%	25V
C805	1-124-564-11	ELECT	4700MF	20%	25V
C806	1-126-101-11	ELECT	100MF	20%	16V
C807	1-126-101-11	ELECT	100MF	20%	16V
C808	1-126-103-11	ELECT	470MF	20%	16V
C809	1-126-103-11	ELECT	470MF	20%	16V
C810	1-102-355-00	CERAMIC	0.01MF		250V
C811	1-102-355-00	CERAMIC	0.01MF		250V
C812	1-126-103-11	ELECT	470MF	20%	16V
C846	1-101-005-00	CERAMIC	0.022MF		50V
C847	1-136-153-00	FILM	0.01MF	5%	50V
C848	1-101-006-00	CERAMIC	0.047MF		50V
C849	1-161-494-00	CERAMIC	0.022MF	30%	25V
CF151	1-567-389-11	FILTER, CERAMIC			
CF152	1-567-389-11	FILTER, CERAMIC			
CF153	1-567-389-11	FILTER, CERAMIC			
CF351	1-527-981-00	FILTER, CERAMIC			
CF451	1-567-250-11	OSCILLATOR, CERAMIC			
CN500	*1-535-115-00	TERMINAL			
CN600	*1-535-115-00	TERMINAL			
CN703	*1-562-250-00	SOCKET, CONNECTOR 5P			
CN901	*1-535-116-00	TERMINAL			
CNJ1	⚠1-526-794-11	OUTLET, AC			
CNJ100	1-562-067-00	SOCKET, CONNECTOR 5P			
CNJ551	*1-564-508-11	PLUG, CONNECTOR 5P			
CNJ552	*1-564-509-11	PLUG, CONNECTOR 6P			
CNJ553	*1-564-508-11	PLUG, CONNECTOR 5P			
CNJ751	*1-562-250-00	SOCKET, CONNECTOR 5P			
CNJ752	*1-562-251-00	SOCKET, CONNECTOR 6P			
CNJ755	*1-562-251-00	SOCKET, CONNECTOR 6P			
CNJ756	*1-506-503-11	PIN, CONNECTOR 9P			
CNJ800	1-562-479-12	SOCKET, CONNECTOR 10P			
CNJ801	1-564-358-00	PIN, CONNECTOR 3P			
D100	8-719-945-64	DIODE SLP790B-51			
D101	8-719-945-64	DIODE SLP790B-51			
D102	8-719-945-64	DIODE SLP790B-51			
D103	8-719-945-64	DIODE SLP790B-51			
D104	8-719-945-64	DIODE SLP790B-51			
D451	8-719-945-66	DIODE SLP190B-51			
D452	8-719-940-76	DIODE 1SS132			
D453	8-719-940-76	DIODE 1SS132			
D501	8-719-940-69	DIODE 1SS131			
D502	8-719-910-62	DIODE HZ6A2L			
D503	8-719-940-69	DIODE 1SS131			
D504	8-719-940-69	DIODE 1SS131			
D551	8-719-910-62	DIODE HZ6A2L			
D601	8-719-940-69	DIODE 1SS131			
D602	8-719-910-62	DIODE HZ6A2L			

ELECTRICAL PARTS

Ref.No.	Part No.	Description
D603	8-719-940-69	DIODE 1SS131
D604	8-719-940-69	DIODE 1SS131
D700	8-719-200-77	DIODE 10E2N
D701	8-719-940-76	DIODE 1SS132
D702	8-719-940-76	DIODE 1SS132
D751	8-719-940-76	DIODE 1SS132
D752	8-719-940-76	DIODE 1SS132
D753	8-719-940-76	DIODE 1SS132
D759	8-719-940-76	DIODE 1SS132
D760	8-719-940-76	DIODE 1SS132
D761	8-719-940-76	DIODE 1SS132
D762	8-719-940-76	DIODE 1SS132
D763	8-719-940-76	DIODE 1SS132
D764	8-719-940-76	DIODE 1SS132
D765	8-719-940-76	DIODE 1SS132
D766	8-719-940-76	DIODE 1SS132
D767	8-719-940-76	DIODE 1SS132
D768	8-719-940-76	DIODE 1SS132
D769	8-719-940-76	DIODE 1SS132
D800	8-719-230-04	DIODE 30D4
D801	8-719-230-04	DIODE 30D4
D802	8-719-230-04	DIODE 30D4
D803	8-719-230-04	DIODE 30D4
D804	8-719-511-40	DIODE S1VB40
D805	8-719-910-25	DIODE HZ12B2L
D806	8-719-910-25	DIODE HZ12B2L
F1	⚠1-532-286-00	FUSE, TIME-LAG (T2.5A)
F2	⚠1-532-286-00	FUSE, TIME-LAG (T 2.5A)
FE151	1-463-857-21	FRONT END (FM)
FE251	1-235-936-11	ENCAPSULATED COMPONENT
IC100	8-759-600-02	IC M5218L
IC300	8-759-106-61	IC UPC4570HA
IC351	8-759-801-81	IC LA1265
IC451	8-759-801-80	IC LA3401
IC651	8-759-202-63	IC TC9172P
IC700	8-759-111-68	IC UPC1237HA
IC751	8-759-206-73	IC TC9302AF-012
IFT351	1-404-713-11	TRANSFORMER, IF
J100	1-507-911-11	JACK, PIN 6P
J700	1-507-796-21	JACK
L351	1-410-576-11	MICRO INDUCTOR 1MMH
L500	*1-420-872-00	COIL, AIR CORE
L552	1-410-564-41	MICRO INDUCTOR 100UH
L600	*1-420-872-00	COIL, AIR CORE
LCD751	1-807-842-11	DISPLAY PANEL, LIQUID CRYSTAL
LPF451	1-235-221-00	FILTER, LOW PASS
PL751	1-518-576-51	LAMP, PILOT
PL752	1-518-576-51	LAMP, PILOT
PL801	1-518-588-21	LAMP, PILOT
Q151	8-729-266-93	TRANSISTOR 2SC2669
Q152	8-729-266-93	TRANSISTOR 2SC2669
Q153	8-729-266-93	TRANSISTOR 2SC2669
Q154	8-729-266-93	TRANSISTOR 2SC2669
Q300	8-729-600-27	TRANSISTOR 2SC634SP
Q301	8-729-600-27	TRANSISTOR 2SC634SP
Q302	8-729-600-27	TRANSISTOR 2SC634SP
Q303	8-729-600-27	TRANSISTOR 2SC634SP
Q304	8-729-600-27	TRANSISTOR 2SC634SP

ELECTRICAL PARTS

Ref.No.	Part No.	Description			
Q351	8-729-806-28	TRANSISTOR 2SC3402			
Q400	8-729-600-27	TRANSISTOR 2SC634SP			
Q401	8-729-600-27	TRANSISTOR 2SC634SP			
Q402	8-729-600-27	TRANSISTOR 2SC634SP			
Q403	8-729-600-27	TRANSISTOR 2SC634SP			
Q404	8-729-600-27	TRANSISTOR 2SC634SP			
Q451	8-729-800-28	TRANSISTOR 2SC3402			
Q452	8-729-800-28	TRANSISTOR 2SC3402			
Q453	8-729-806-20	TRANSISTOR 2SA1345			
Q501	8-729-697-92	TRANSISTOR 2SA979			
Q502	8-729-178-54	TRANSISTOR 2SC2785			
Q503	8-729-178-54	TRANSISTOR 2SC2785			
Q504	8-729-104-91	TRANSISTOR 2SA1383			
Q505	8-729-107-26	TRANSISTOR 2SD1585			
Q506	8-729-104-18	TRANSISTOR 2SC3514			
Q507	8-729-178-54	TRANSISTOR 2SC2785			
Q508	8-729-117-54	TRANSISTOR 2SA1175			
Q509	8-729-107-53	TRANSISTOR 2SC2275-Q			
Q510	8-729-190-53	TRANSISTOR 2SA985A-Q			
Q511	8-729-111-74	TRANSISTOR 2SD1289-Q			
Q512	8-729-111-77	TRANSISTOR 2SB966-Q			
Q513	8-729-108-14	TRANSISTOR 2SA988-F			
Q514	8-729-108-05	TRANSISTOR 2SC1841-PA			
Q551	8-729-806-38	TRANSISTOR 2SC3399			
Q552	8-729-806-38	TRANSISTOR 2SC3399			
Q601	8-729-697-92	TRANSISTOR 2SA979			
Q602	8-729-178-54	TRANSISTOR 2SC2785			
Q603	8-729-178-54	TRANSISTOR 2SC2785			
Q604	8-729-104-91	TRANSISTOR 2SA1383			
Q605	8-729-107-26	TRANSISTOR 2SD1585			
Q606	8-729-104-18	TRANSISTOR 2SC3514			
Q607	8-729-178-54	TRANSISTOR 2SC2785			
Q608	8-729-117-54	TRANSISTOR 2SA1175			
Q609	8-729-107-53	TRANSISTOR 2SC2275A			
Q610	8-729-190-53	TRANSISTOR 2SA985A			
Q611	8-729-111-74	TRANSISTOR 2SD1289-Q			
Q612	8-729-111-77	TRANSISTOR 2SB966-Q			
Q613	8-729-108-14	TRANSISTOR 2SA988			
Q614	8-729-108-05	TRANSISTOR 2SC1841-PA			
Q651	8-729-202-67	TRANSISTOR 2SK246-GR3			
Q652	8-729-201-84	TRANSISTOR 2SC3112-B			
Q700	8-729-806-16	TRANSISTOR 2SA1346			
Q800	8-729-107-26	TRANSISTOR 2SD1585-K			
Q801	8-729-201-56	TRANSISTOR 2SK246-GR2			
Q802	8-729-201-56	TRANSISTOR 2SK246-GR2			
Q803	8-729-111-67	TRANSISTOR 2SB1094-L			
R101	1-249-469-11	CARBON	100K	5%	1/4W
R102	1-247-708-11	CARBON	470	5%	1/4W
R103	1-249-469-11	CARBON	100K	5%	1/4W
R104	1-247-712-11	CARBON	820	5%	1/4W
R105	1-246-539-00	CARBON	560K	5%	1/4W
R106	1-249-465-11	CARBON	47K	5%	1/4W
R107	1-247-704-11	CARBON	220	5%	1/4W
R108	1-249-469-11	CARBON	100K	5%	1/4W
R109	1-247-711-11	CARBON	680	5%	1/4W

The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.

ELECTRICAL PARTS

Ref.No.	Part No.	Description				
R110	⚠1-215-862-11	METAL OXIDE	68	5%	1W	F
R112	1-247-708-11	CARBON	470	5%	1/4W	
R114	1-246-545-00	CARBON	1M	5%	1/4W	
R115	1-246-545-00	CARBON	1M	5%	1/4W	
R146	1-247-708-11	CARBON	470	5%	1/4W	
R147	1-247-708-11	CARBON	470	5%	1/4W	
R148	1-247-708-11	CARBON	470	5%	1/4W	
R149	1-247-714-11	CARBON	1.2K	5%	1/4W	
R151	⚠1-247-696-11	CARBON	47	5%	1/4W	F
R152	1-249-411-11	CARBON	330	5%	1/4W	
R153	1-249-411-11	CARBON	330	5%	1/4W	
R154	⚠1-247-699-11	CARBON	82	5%	1/4W	F
R155	1-249-432-11	CARBON	18K	5%	1/4W	
R156	1-249-411-11	CARBON	330	5%	1/4W	
R157	1-249-414-11	CARBON	560	5%	1/4W	
R158	1-249-411-11	CARBON	330	5%	1/4W	
R159	1-249-434-11	CARBON	27K	5%	1/4W	
R160	1-249-432-11	CARBON	18K	5%	1/4W	
R161	1-249-411-11	CARBON	330	5%	1/4W	
R162	1-249-416-11	CARBON	820	5%	1/4W	
R163	1-249-411-11	CARBON	330	5%	1/4W	
R164	1-249-434-11	CARBON	27K	5%	1/4W	
R165	1-249-437-11	CARBON	47K	5%	1/4W	
R166	1-249-434-11	CARBON	27K	5%	1/4W	
R251	1-249-441-11	CARBON	100K	5%	1/4W	
R252	1-249-437-11	CARBON	47K	5%	1/4W	
R300	1-249-417-11	CARBON	1K	5%	1/4W	
R301	1-249-441-11	CARBON	100K	5%	1/4W	
R302	1-249-425-11	CARBON	4.7K	5%	1/4W	
R303	1-249-434-11	CARBON	27K	5%	1/4W	
R304	1-249-425-11	CARBON	4.7K	5%	1/4W	
R305	1-249-419-11	CARBON	1.5K	5%	1/4W	
R306	1-249-437-11	CARBON	47K	5%	1/4W	
R307	1-249-412-11	CARBON	390	5%	1/4W	
R308	1-249-427-11	CARBON	6.8K	5%	1/4W	
R309	1-249-419-11	CARBON	1.5K	5%	1/4W	
R310	1-249-437-11	CARBON	47K	5%	1/4W	
R311	1-249-412-11	CARBON	390	5%	1/4W	
R312	1-249-427-11	CARBON	6.8K	5%	1/4W	
R313	1-249-419-11	CARBON	1.5K	5%	1/4W	
R314	1-249-437-11	CARBON	47K	5%	1/4W	
R315	1-249-412-11	CARBON	390	5%	1/4W	
R316	1-249-427-11	CARBON	6.8K	5%	1/4W	
R317	1-249-419-11	CARBON	1.5K	5%	1/4W	
R318	1-249-437-11	CARBON	47K	5%	1/4W	
R319	1-249-412-11	CARBON	390	5%	1/4W	
R320	1-249-427-11	CARBON	6.8K	5%	1/4W	
R321	1-249-419-11	CARBON	1.5K	5%	1/4W	
R322	1-249-437-11	CARBON	47K	5%	1/4W	
R323	1-249-412-11	CARBON	390	5%	1/4W	
R324	1-249-427-11	CARBON	6.8K	5%	1/4W	
R325	1-249-419-11	CARBON	1.5K	5%	1/4W	
R351	⚠.1-247-702-11	CARBON	150	5%	1/4W	F
R352	1-247-849-00	CARBON	5.6K	5%	1/4W	
R353	1-249-423-11	CARBON	3.3K	5%	1/4W	
R354	1-249-434-11	CARBON	27K	5%	1/4W	
R355	1-249-404-00	CARBON	82	5%	1/4W	
R356	1-249-423-11	CARBON	3.3K	5%	1/4W	
R357	1-249-429-11	CARBON	10K	5%	1/4W	
R358	1-249-429-11	CARBON	10K	5%	1/4W	
R370	1-249-413-11	CARBON	470	5%	1/4W	
R371	1-249-421-11	CARBON	2.2K	5%	1/4W	
R372	1-249-417-11	CARBON	1K	5%	1/4W	
R451	1-249-437-11	CARBON	47K	5%	1/4W	
R452	1-246-481-11	CARBON	2.2K	5%	1/4W	
R454	1-215-479-00	CARBON	270K	5%	1/4W	
R455	1-215-479-00	CARBON	270K	5%	1/4W	
R456	1-247-883-00	CARBON	150K	5%	1/4W	
R457	1-247-883-00	CARBON	150K	5%	1/4W	
R458	1-249-425-11	CARBON	4.7K	5%	1/4W	
R459	1-249-425-11	CARBON	4.7K	5%	1/4W	
R460	1-249-425-11	CARBON	4.7K	5%	1/4W	
R461	1-249-425-11	CARBON	4.7K	5%	1/4W	
R462	1-249-441-11	CARBON	100K	5%	1/4W	
R463	1-249-417-11	CARBON	1K	5%	1/4W	
R464	1-249-429-11	CARBON	10K	5%	1/4W	
R465	1-249-428-11	CARBON	8.2K	5%	1/4W	
R466	1-249-417-11	CARBON	1K	5%	1/4W	
R467	1-249-428-11	CARBON	8.2K	5%	1/4W	
R468	1-247-849-00	CARBON	5.6K	5%	1/4W	
R469	⚠.1-247-699-11	CARBON	82	5%	1/4W	F
R471	1-249-439-11	CARBON	68K	5%	1/4W	
R472	1-249-429-11	CARBON	10K	5%	1/4W	
R501	1-247-713-11	CARBON	1K	5%	1/4W	
R502	1-247-726-11	CARBON	33K	5%	1/4W	
R503	1-247-717-11	CARBON	2.2K	5%	1/4W	
R504	1-247-706-11	CARBON	330	5%	1/4W	
R505	⚠.1-247-704-11	CARBON	220	5%	1/4W	F
R506	⚠.1-247-704-11	CARBON	220	5%	1/4W	F
R507	1-247-726-11	CARBON	33K	5%	1/4W	
R508	1-247-715-11	CARBON	1.5K	5%	1/4W	
R509	⚠.1-247-692-11	CARBON	22	5%	1/4W	F
R510	1-247-725-11	CARBON	10K	5%	1/4W	
R511	1-247-726-11	CARBON	33K	5%	1/4W	
R512	1-249-462-11	CARBON	22K	5%	1/4W	
R513	1-249-460-11	CARBON	15K	5%	1/4W	
R514	1-247-718-11	CARBON	2.7K	5%	1/4W	
R515	1-247-714-11	CARBON	1.2K	5%	1/4W	
R516	⚠.1-247-692-11	CARBON	22	5%	1/4W	F
R517	⚠.1-247-700-11	CARBON	100	5%	1/4W	F
R518	⚠.1-247-700-11	CARBON	100	5%	1/4W	F
R519	⚠.1-247-719-11	CARBON	3.3K	5%	1/4W	F
R520	⚠.1-247-713-11	CARBON	1K	5%	1/4W	F
R521	⚠.1-247-713-11	CARBON	1K	5%	1/4W	F
R522	⚠.1-247-717-11	CARBON	2.2K	5%	1/4W	F
R523	⚠.1-249-455-11	CARBON	4.7	5%	1/4W	F
R524	⚠.1-247-745-11	CARBON	330	5%	1/2W	F
R525	⚠.1-249-455-11	CARBON	4.7	5%	1/4W	F
R526	1-214-789-00	RES, METAL PLATE 0.1				
R527	1-214-789-00	RES, METAL PLATE 0.1				
R528	1-249-469-11	CARBON	100K	5%	1/4W	
R530	⚠.1-247-700-11	CARBON	100	5%	1/4W	F
R531	1-249-460-11	CARBON	15K	5%	1/4W	
R532	1-247-727-11	CARBON	10	5%	1/2W	
R533	1-249-465-11	CARBON	47K	5%	1/4W	

The components identified
by shading and mark ⚠ are
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Replace only with part
number specified.

ELECTRICAL PARTS

Ref.No.	Part No.	Description				
R534	1-247-727-11	CARBON	10	5%	1/2W	
R535	⚠1-215-868-00	METAL OXIDE	680	5%	1W	F
R548	1-247-727-11	CARBON	10	5%	1/2W	
R549	1-247-727-11	CARBON	10	5%	1/2W	
R551	1-249-438-11	CARBON	56K	5%	1/4W	
R552	1-249-435-11	CARBON	33K	5%	1/4W	
R553	1-249-429-11	CARBON	10K	5%	1/4W	
R554	1-249-429-11	CARBON	10K	5%	1/4W	
R555	1-249-441-11	CARBON	100K	5%	1/4W	
R556	1-249-411-11	CARBON	330	5%	1/4W	
R648	1-247-727-11	CARBON	10	5%	1/2W	
R649	1-247-727-11	CARBON	10	5%	1/2W	
R652	1-249-417-11	CARBON	1K	5%	1/4W	
R653	1-249-417-11	CARBON	1K	5%	1/4W	
R654	1-249-417-11	CARBON	1K	5%	1/4W	
R655	1-249-417-11	CARBON	1K	5%	1/4W	
R656	⚠1-247-700-11	CARBON	100	5%	1/4W	F
R657	1-249-423-11	CARBON	3.3K	5%	1/4W	
R658	1-249-414-11	CARBON	560	5%	1/4W	
R659	1-249-418-11	CARBON	1.2K	5%	1/4W	
R660	1-249-410-11	CARBON	270	5%	1/4W	
R661	1-249-425-11	CARBON	4.7K	5%	1/4W	
R662	1-249-421-11	CARBON	2.2K	5%	1/4W	
R663	1-249-425-11	CARBON	4.7K	5%	1/4W	
R664	⚠1-247-702-11	CARBON	150	5%	1/4W	F
R665	1-249-405-11	CARBON	100	5%	1/4W	
R666	1-249-425-11	CARBON	4.7K	5%	1/4W	
R700	1-247-725-11	CARBON	10K	5%	1/4W	
R702	1-249-469-11	CARBON	100K	5%	1/4W	
R703	1-249-466-11	CARBON	56K	5%	1/4W	
R704	1-249-462-11	CARBON	22K	5%	1/4W	
R705	1-249-463-11	CARBON	27K	5%	1/4W	
R706	⚠1-206-723-00	METAL OXIDE	820	5%	3W	F
R751	1-249-425-11	CARBON	4.7K	5%	1/4W	
R753	1-249-423-11	CARBON	3.3K	5%	1/4W	
R754	1-249-425-11	CARBON	4.7K	5%	1/4W	
R800	1-213-048-00	FUSIBLE	3.3	5%	1W	F
R801	⚠1-213-048-00	FUSIBLE	3.3	5%	1W	F
R802	⚠1-217-469-00	FUSIBLE	1	5%	1W	F
R803	⚠1-217-469-00	FUSIBLE	1	5%	1W	F
R806	⚠1-247-729-11	CARBON	15	5%	1/2W	F
R807	⚠1-247-688-11	CARBON	10	5%	1/4W	

ELECTRICAL PARTS

Ref.No.	Part No.	Description
RV300	1-237-678-11	RES, VAR, CARBON 250K/250K (VOLUME)
RV301	1-237-676-11	RES, VAR, SLIDE 250K/250K (BALANCE)
RV302	1-237-677-11	RES, VAR, SLIDE 250K/250K (100Hz)
RV303	1-237-677-11	RES, VAR, SLIDE 250K/250K (400Hz)
RV304	1-237-677-11	RES, VAR, SLIDE 250K/250K (1kHz)
RV305	1-237-677-11	RES, VAR, SLIDE 250K/250K (4kHz)
RV306	1-237-677-11	RES, VAR, SLIDE 250K/250K (12kHz)
RV351	1-228-996-00	RES, ADJ, CARBON 47K
RV352	1-228-994-00	RES, ADJ, CARBON 10K
RY700	1-515-356-00	RELAY
S1	⚠1-554-920-11	SWITCH, PUSH (AC POWER)(1 KEY)
S100	1-571-053-11	SWITCH, PUSH (5 KEY)
S500	1-571-033-11	SWITCH, PUSH (2 KEY)
S751	1-554-303-21	SWITCH, KEY BOARD (MEMORY)
S752	1-554-303-21	SWITCH, KEY BOARD (1)
S753	1-554-303-21	SWITCH, KEY BOARD (2)
S754	1-554-303-21	SWITCH, KEY BOARD (3)
S755	1-554-303-21	SWITCH, KEY BOARD (4)
S756	1-554-303-21	SWITCH, KEY BOARD (5)
S757	1-554-303-21	SWITCH, KEY BOARD (6)
S758	1-554-303-21	SWITCH, KEY BOARD (7)
S759	1-554-303-21	SWITCH, KEY BOARD (8)
S760	1-554-303-21	SWITCH, KEY BOARD (9)
S761	1-554-303-21	SWITCH, KEY BOARD (0)
S762	1-554-303-21	SWITCH, KEY BOARD (ENTER)
S764	1-554-303-21	SWITCH, KEY BOARD (+)
S765	1-554-303-21	SWITCH, KEY BOARD (-)
S766	1-554-303-21	SWITCH, KEY BOARD (AUTO/MANUAL)
S767	1-554-303-21	SWITCH, KEY BOARD (BAND)
T1	⚠1-449-015-11	TRANSFORMER, POWER
T351	1-404-659-11	COIL, DISCRIMINATOR
T352	1-235-126-00	ENCAPSULATED COMPONENT
TM102	1-563-199-11	CONNECTOR, PAL
TM151	1-536-707-00	TERMINAL BOARD, PUSH 2P
TM700	1-536-706-00	TERMINAL BOARD (SP)
TP351	*1-560-060-00	PIN, CONNECTOR 2P
TP751	*1-560-063-00	PIN, CONNECTOR 5P
XT751	1-567-767-11	VIBRATOR, CRYSTAL

The components identified by shading and mark ⚠ are critical for safety.
Replace only with part number specified.